PV-140/ 143/ 149/ 153/ 155/ 157/ 180/ 183/ 980 /981 VPRO

PCI Video/Audio Surveillance System

Hardware and Driver Installation Guide

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Version：3.0
Date：2006/11/24

Revision History

Date	Version	Description
=2005/08/17	2.5	For Security Eyes Software of version 2.490=
=2005/10/31	2.6	For Security Eyes Software of version 2.506=
=2005/11/02	2.7	For Security Eyes Software of version 2.507=
=2006/07/12	2.8	For Security Eyes Software of version 2.518=
=2006/11/20	3.0	For Security Eyes Software of version 3.003=

Our web site, www.provideo.com.tw welcomes to download the latest version for the manual.

1. Before Installation

1.1 Product Specifications

(a) & (b)

	PV-140VPRO	PV-143VPRO
Interface Bus Video-In Audio-In	 PCI V2.1 Compliance BNC inputs*4 Support Watch Dog Support GPIO None	 PCI V2.1 Compliance BNC inputs*4 Support Watch Dog Support GPIO 3.5mm Phone Jack*1
Video Format	NTSC/PAL	NTSC/PAL
Software with product	1.Windows XP/2K3 (WDM) driver 2.Security Eyes Software	1.Windows XP/2K3 (WDM) driver 2.Security Eyes Software
System Requirement	Intel Pentium IV 1.6Ghz or higher Minimum 256MB DRAM 2X CD ROM Drive MS Windows 2K/XP/2K3 VGA Card and Monitor Network Card	Intel Pentium IV 1.6Ghz or higher Minimum 256MB DRAM 2X CD ROM Drive MS Windows 2K/XP/2K3 VGA Card and Monitor Network Card

(c) & (d)

	PV-149VPRO	PV-153VPRO
Interface Bus Video-In Audio-In	 PCI V2.1/2.2 Compliance BNC inputs*4 Support Watch Dog Support GPIO None	 PCI V2.1/2.2 Compliance BNC inputs*4 Support Watch Dog Support GPIO BNC inputs*4
Video Format	NTSC/PAL	NTSC/PAL
Software with product	1.Windows XP/2K3 (WDM) driver 2.Security Eyes Software	1.Windows XP/2K3 (WDM) driver 2.Security Eyes Software
System Requirement	Intel Pentium IV 1.6Ghz or higher Minimum 256MB DRAM 2X CD ROM Drive MS Windows 2K/XP/2K3 VGA Card and Monitor Network Card	Intel Pentium 3.0Ghz or higher Minimum 512MB DRAM 2X CD ROM Drive MS Windows 2K/XP/2K3 VGA Card and Monitor Network Card

(e) & (f)

	PV-155VPRO	PV-157VPRO
Interface Bus Video-In Audio-In	 PCI V2.1/2.2 Compliance BNC inputs*16 Support Watch Dog Support GPIO None	 PCI V2.1/2.2 Compliance BNC inputs*16 Support Watch Dog Support GPIO BNC inputs*4
Video Format	NTSC/PAL	NTSC/PAL
Software with product	1.Windows XP/2K3 (WDM) driver 2.Security Eyes Software	1.Windows XP/2K3 (WDM) driver 2.Security Eyes Software
System Requirement	Intel Pentium 3.0Ghz or higher Minimum 512MB DRAM 2X CD ROM Drive MS Windows 2K/XP/2K3 VGA Card and Monitor Network Card	Intel Pentium 3.0Ghz or higher Minimum 512MB DRAM 2X CD ROM Drive MS Windows 2K/XP/2K3 VGA Card and Monitor Network Card

(g) & (h)

	PV-180VPRO	PV-183VPRO
Interface Bus Video-In Audio-In	 PCI V2.1/2.2 Compliance BNC inputs*4 Support Watch Dog Support GPIO 3.5mm Phone Jack*1	 PCI V2.3 Compliance 8 / 16 ports BNC Support Watch Dog Support GPIO 8 ports BNC
Video format	NTSC/PAL	NTSC/PAL
Software with product	1.Windows XP/2K3 (WDM) driver 2.Security Eyes Software	1.Windows XP/2K3 (WDM) driver 2.Security Eyes Software
System Requirement	Intel Pentium IV 1.6Ghz or higher Minimum 256MB DRAM 2X CD ROM Drive MS Windows 2K/XP/2K3 VGA Card and Monitor Network Card	Intel Pentium 3.0Ghz or higher Minimum 512MB RAM 2X CD ROM Drive MS Windows 2K/XP/2K3 VGA Card and Monitor Network Card

(i) & (j)

	PV-980VPRO- 4 / 8	PV-981VPRO
Interface		
Bus	PCI-Express X1 Compliance	PCI-Express X1 Compliance
Video-In	BNC inputs*4 / 8	BNC inputs*16
	Support Watch Dog	Support Watch Dog
	Support GPIO	Support GPIO
Audio-In	BNC inputs*1	BNC inputs*4
Video format	NTSC/PAL	NTSC/PAL
Software with product	1.Windows XP/2K3 (WDM) driver 2.Security Eyes Software	1.Windows XP/2K3 (WDM) driver 2.Security Eyes Software
System Requirement	Intel Pentium 2.4Ghz or higher Minimum 512MB DRAM 2X CD ROM Drive MS Windows 2K/XP/2K3 VGA Card and Monitor Network Card	Intel Pentium 3.0Ghz or higher Minimum 512MB DRAM 2X CD ROM Drive MS Windows 2K/XP/2K3 VGA Card and Monitor Network Card

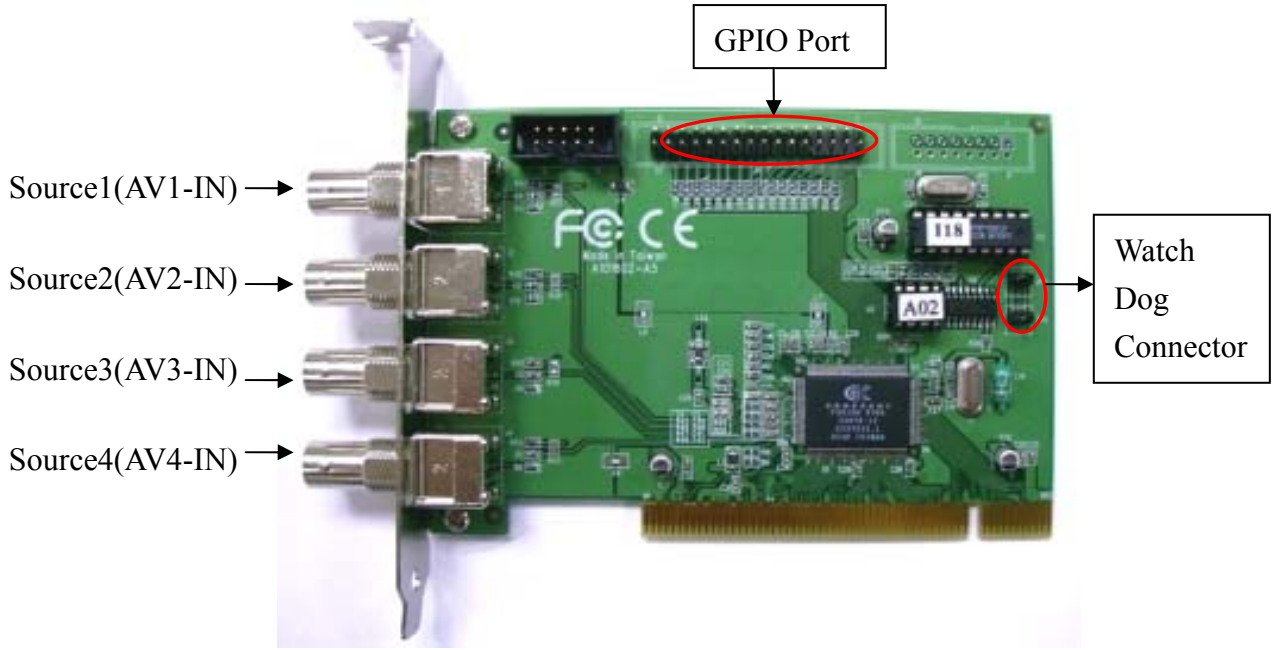
1.2 The Contents of Package：

1. PCI/PCI-Express Capture Card ・・・

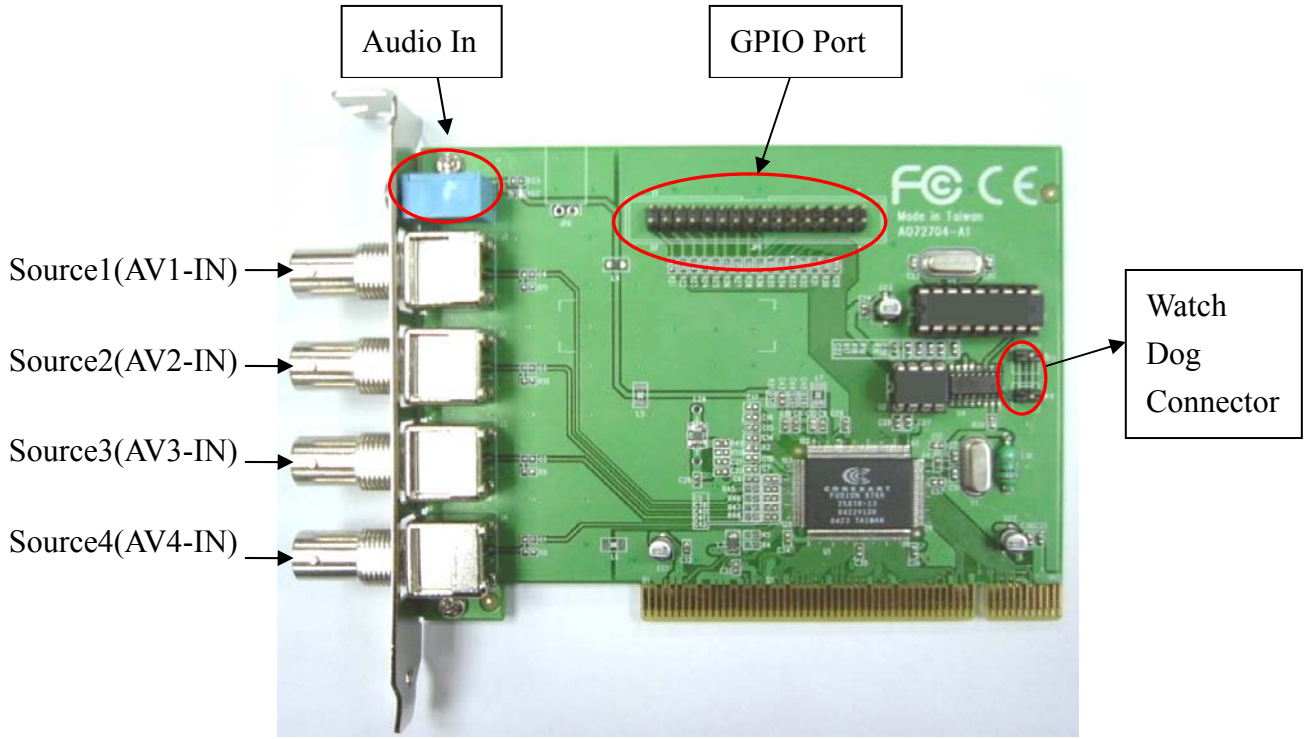
1.3 How to Connect：

Watch Dog cable must be connected to “A” card, you can check the mark on EEPROM.
For example, XNN, X is alphabet and NN is the number. For “A” card, its mark is the 1st sequence of XNN on EEPROM, compared with other cards. For example, A01.
The other side of Watch Dog Cable should be connected to Reset pins of PC.

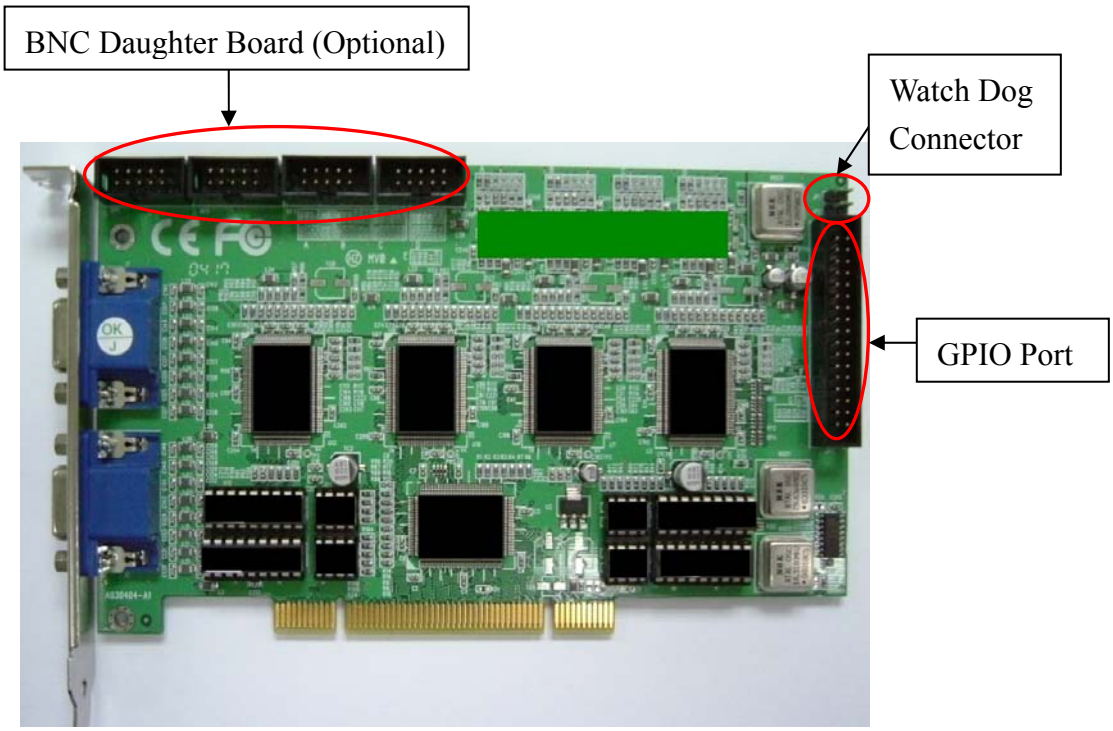
(a) PV-140VPRO



(b) PV-143VPRO

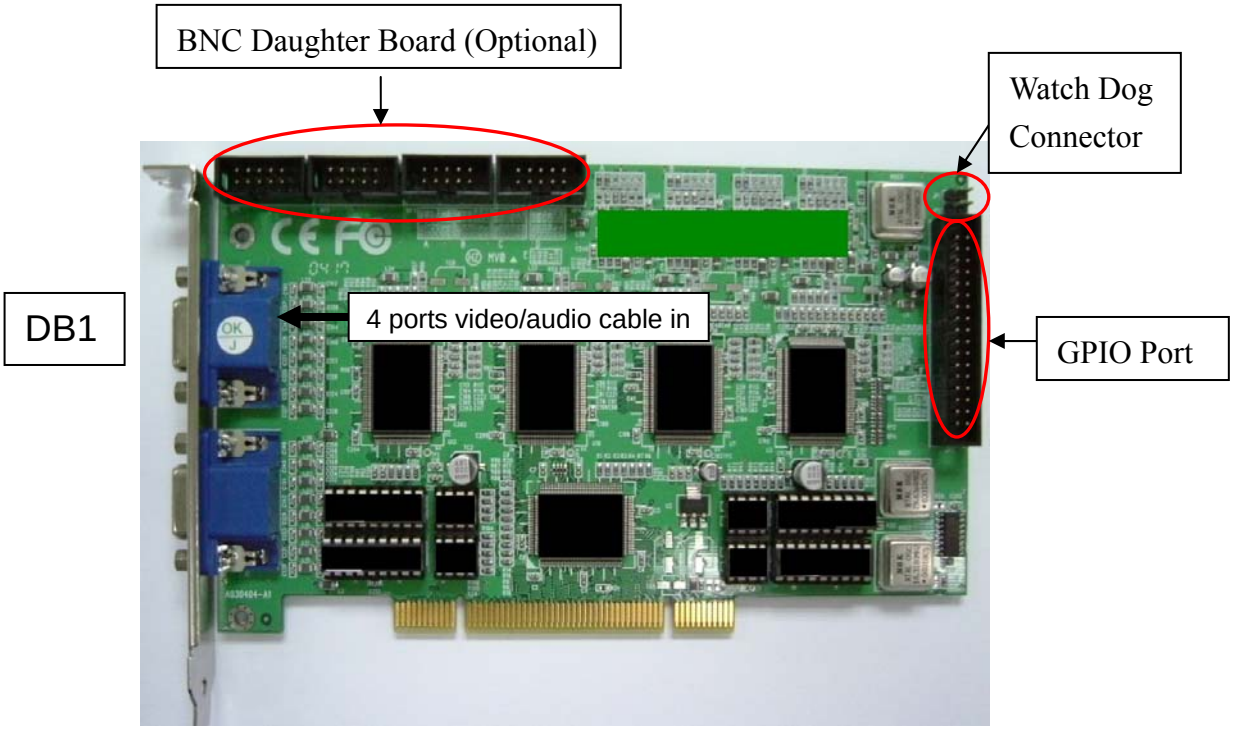


(c) PV-149VPRO



NOTE：One D-Sub 4*BNC Video-In Cable in the package

(d) PV-153VPRO

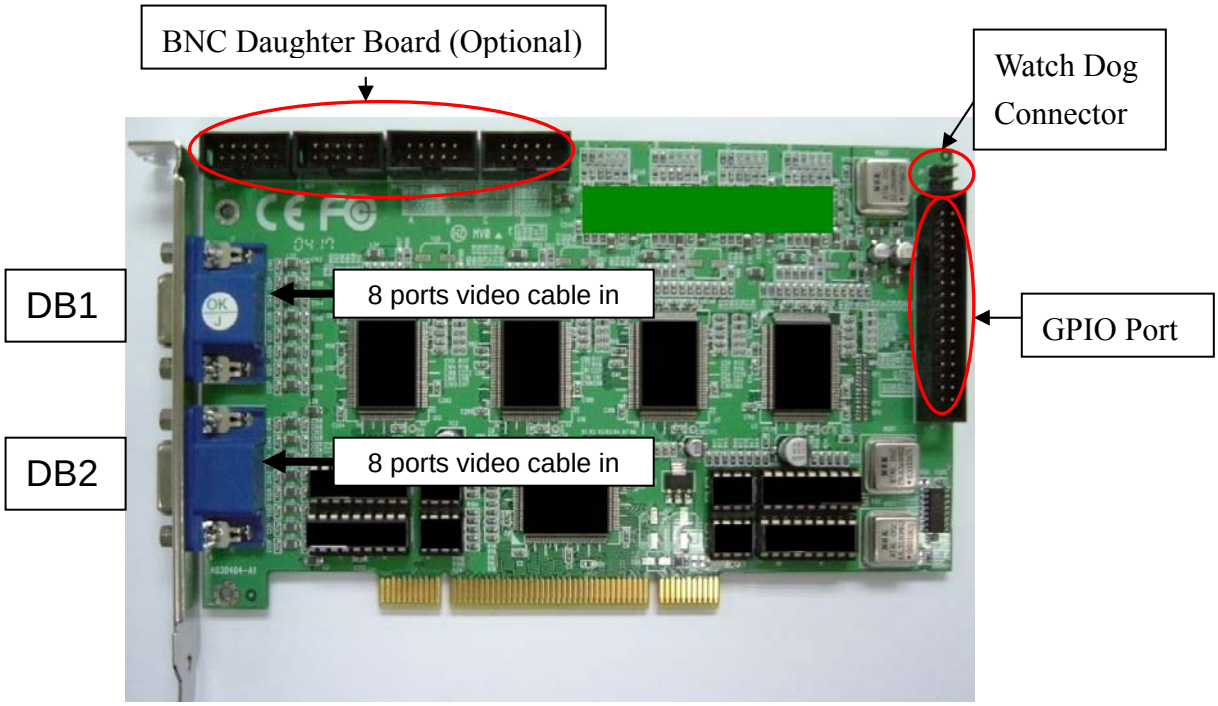


NOTE：One D-Sub 4*BNC Video-In & D-Sub 4*BNC Audio-in Cable in package.

DB1→ RED：Audio Cable (AUD1-AUD4) CH1-CH4

BLUE：Video Cable(VID1-VID4) CH1-CH4

(e) PV-155VPRO

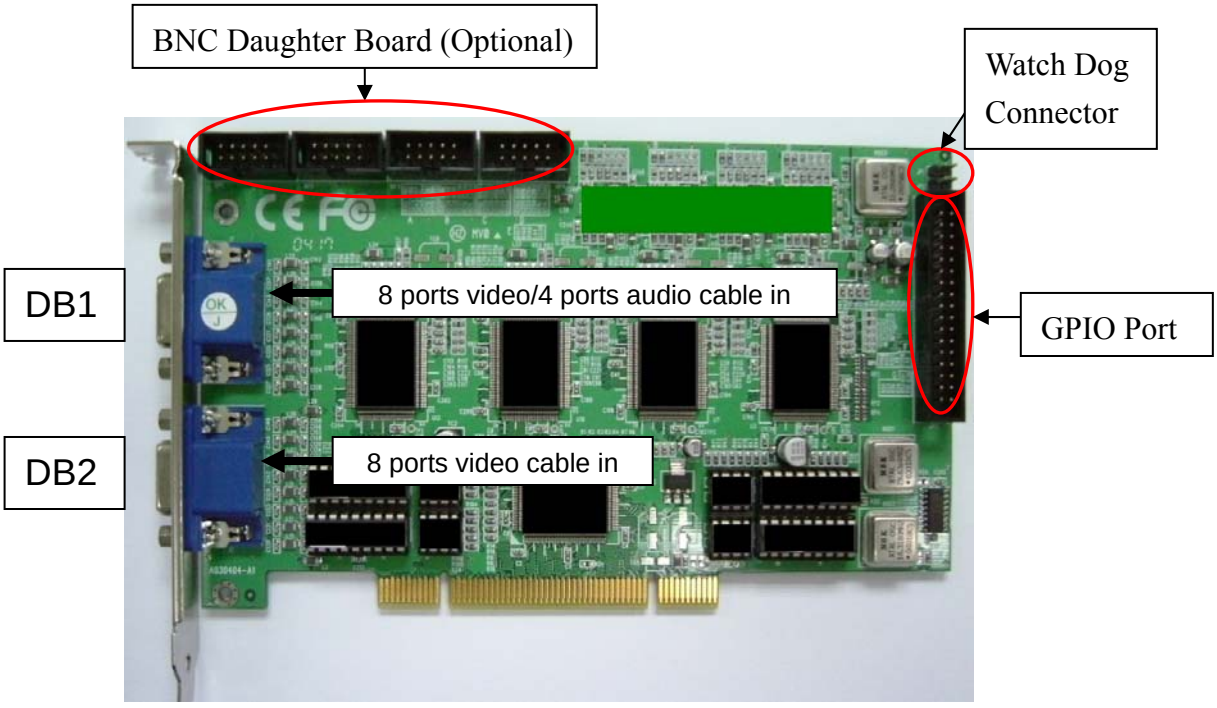


NOTE：Two D-Sub 8*BNC Video-In Cables in the package.

DB1→ BLUE：VID1-VID4(CH1-CH4)　　GREEN：VID1-VID4(CH5-CH8)

DB2→ BLUE：VID1-VID4(CH9-CH12)　　GREEN：VID1-VID4(CH13-CH16)

(f) PV-157VPRO

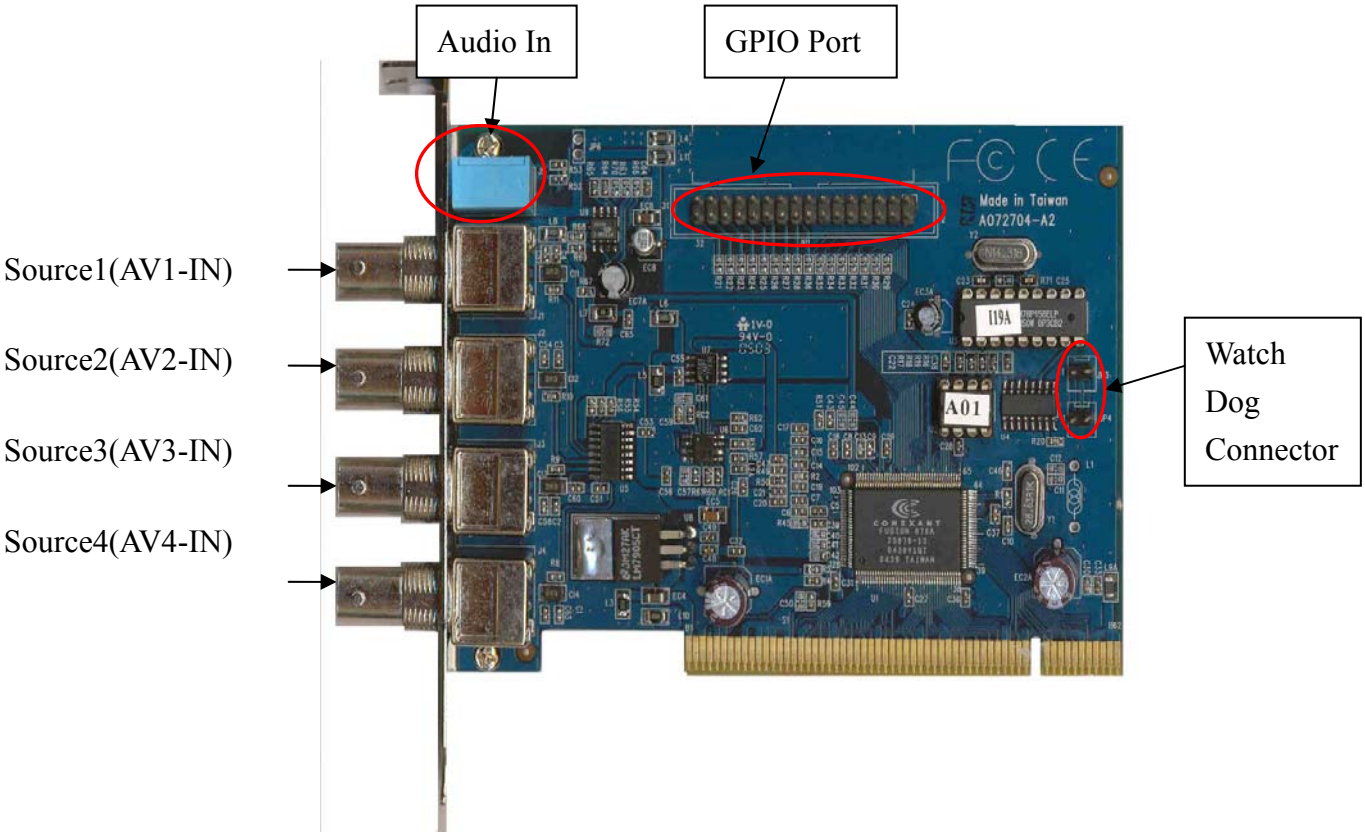


NOTE：One D-Sub 8*BNC Video-In+4*BNC Audio-In cable and another one D-sub 8*BNC Video-In cable in the package.

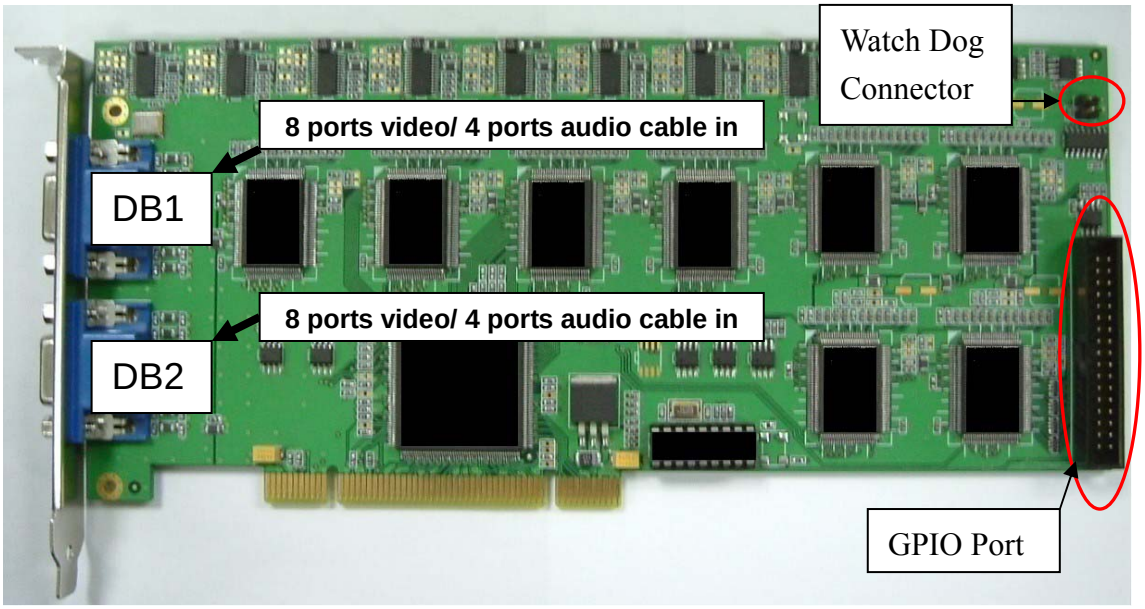
DB1→ RED：Audio cable (AUD1-AUD4)CH1-CH4 ,　　BLUE：Video Cable (VID1-VID4)CH1-4,
GREEN：Video Cable (VID1-VID4) CH5-CH8

DB2→ BLUE：VID1-VID4(CH9-CH12)　　GREEN：VID1-VID4(CH13-CH16)

(g) PV-180 VPRO



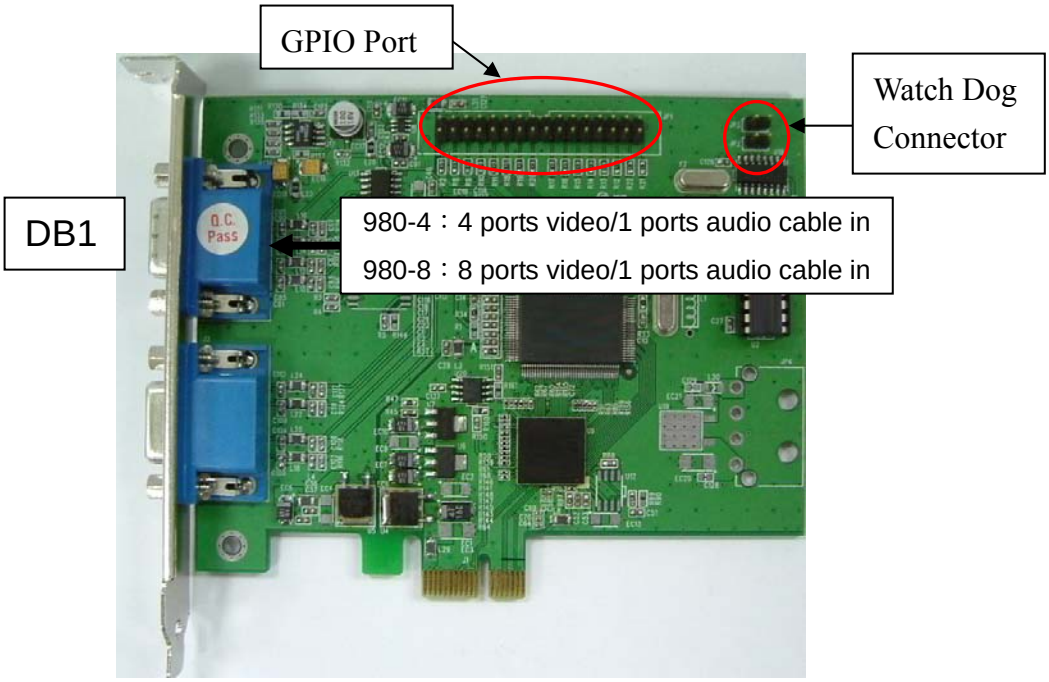
(h) PV-183-16 VPRO



NOTE：To avoid some IRQ errors or problems, please avoid inserting this card on the first or last PCI slot on M/B.

For PV-183-8 VPRO, only 4 ports audio cable in on DB2, please check the cables if you are using PV-183-8 VPRO card.

(f) PV-980VPRO



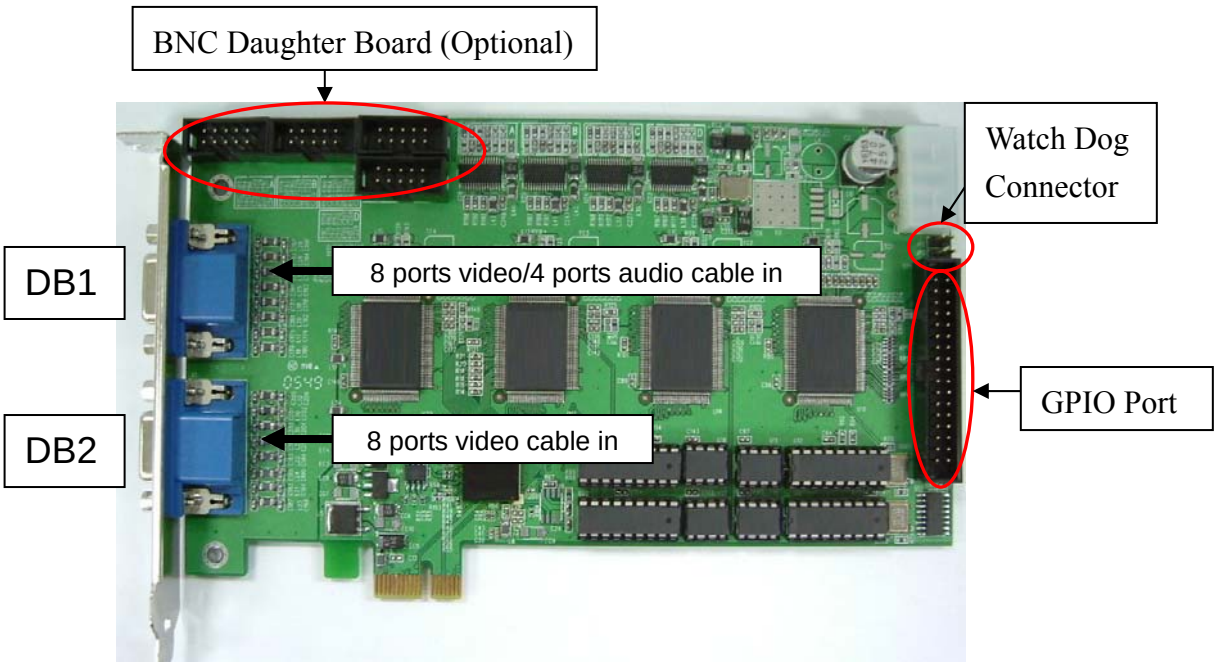
PV-980-4：

DB1→ RED：Audio cable (AUD1)CH1, BLUE：Video Cable (VID1-VID4)CH1-4,

PV-980-8：

DB1→ RED：Audio cable (AUD1)CH1, BLUE：Video Cable (VID1-VID4)CH1-4,
GREEN：Video Cable (VID1-VID4) CH5-CH8

(f) PV-981VPRO



DB1→ RED：Audio cable (AUD1-AUD4)CH1-CH4 , BLUE：Video Cable (VID1-VID4)CH1-4,
GREEN：Video Cable (VID1-VID4) CH5-CH8

DB2→ BLUE：VID1-VID4(CH9-CH12) GREEN：VID1-VID4(CH13-CH16)

2. Notice Before Installation

2.1 Hardware Portion：

Please make sure there are available PCI slots for PCI Capture Card insertion.

2.2 Software Portion：

Sorry, for user of Windows 98SE/Me/NT, these cards do not support. They only support Windows™ 2K/XP /2K3 application.

3. Installation

Please follow the below steps to install device driver and software.

3.1 Install PCI Surveillance Card (For Main Server)

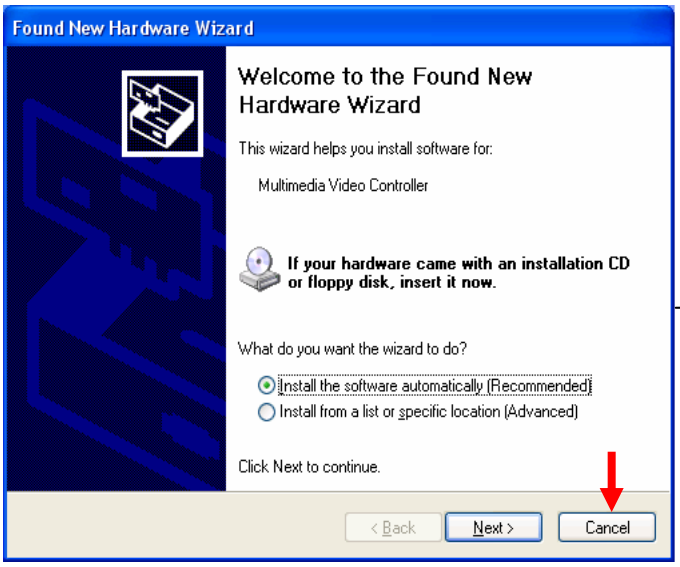
Turn-off your computer.
Open the case.
Plug the card on the empty PCI slot, and screw the card on tightly.
Close the case and Turn-on your computer.

3.2 Install Device Drivers (For Main Server)

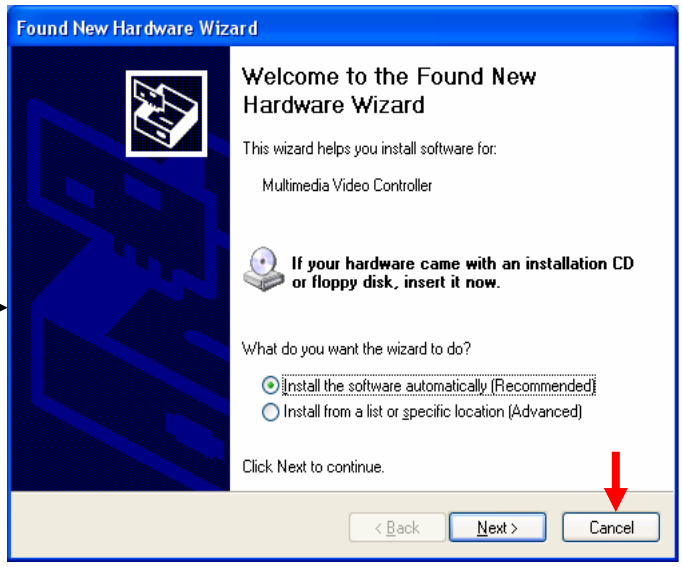
When you turn on PC, the system will detect the new hardware and prompt “Found New Hardware Wizard” dialog automatically. Please follow the below steps with wizard guide, until the installation is finished.

Step 1：Install BT878 WDM Driver(For example：PV-149VPRO)

1-1 Please press “Cancel”.


Found New Hardware Wizard
Welcome to the Found New Hardware Wizard
This wizard helps you install software for:
Multimedia Video Controller
If your hardware came with an installation CD or floppy disk, insert it now.
What do you want the wizard to do?
Install the software automatically (Recommended)
Install from a list or specific location (Advanced)
Click Next to continue.
< Back
Next >
Cancel

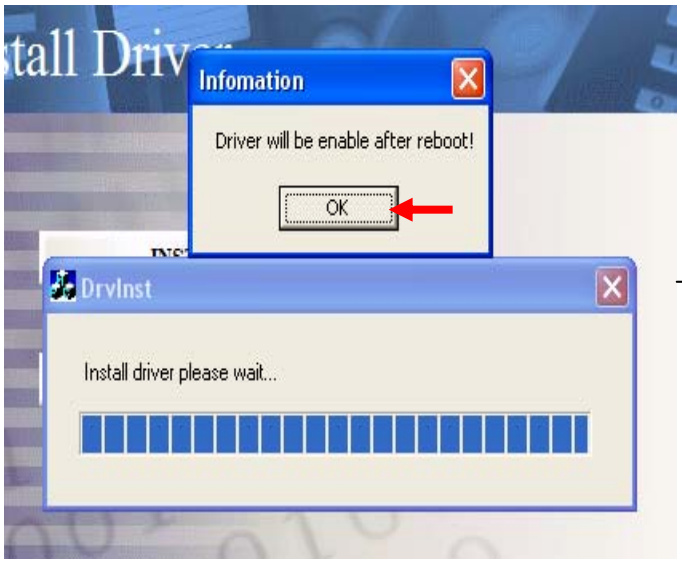
1-2 Also please press “Cancel” and then put the Install CD into CD-ROM.


Found New Hardware Wizard
Welcome to the Found New Hardware Wizard
This wizard helps you install software for:
Multimedia Video Controller
If your hardware came with an installation CD or floppy disk, insert it now.
What do you want the wizard to do?
Install the software automatically (Recommended)
Install from a list or specific location (Advanced)
Click Next to continue.
< Back
Next >
Cancel

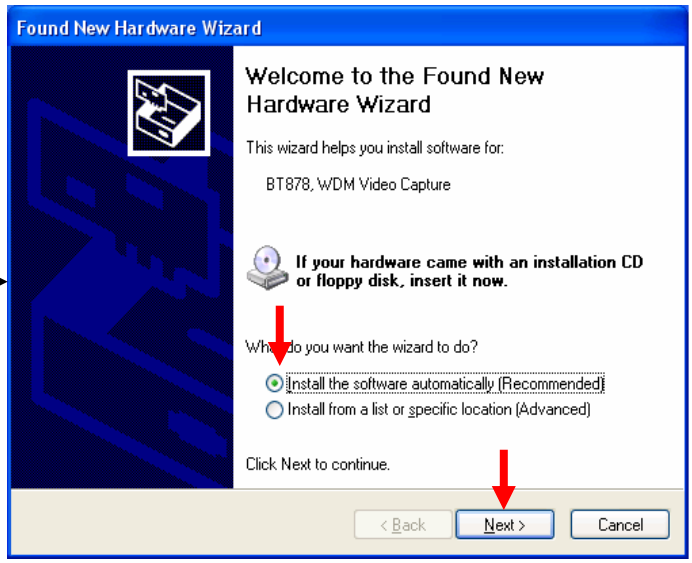
1-3 Please click “INSTALL DRIVER” to continue.

1-4 Please click “INSTALL DRIVER” on this menu.

1-5 Please press “OK” to finish and then reboot PC.



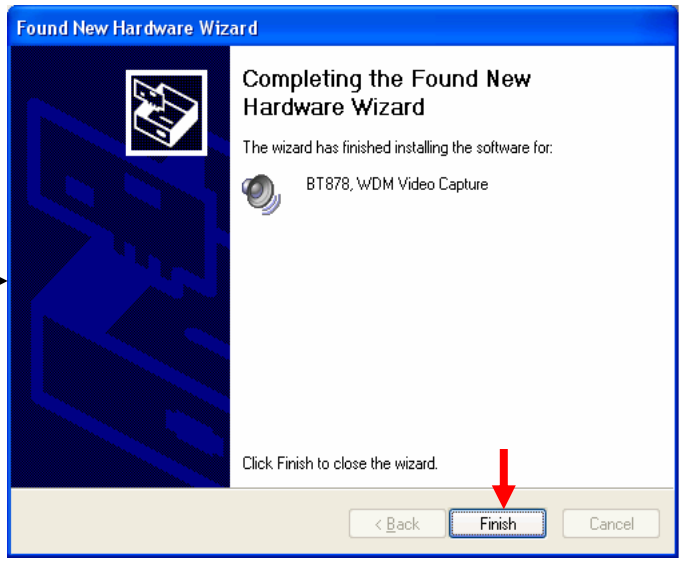
1-6 After PC restart, the following figure will be shown, Please select “Install the software automatically” and click “Next”.


Found New Hardware Wizard
Welcome to the Found New Hardware Wizard
This wizard helps you install software for:
BT878, WDM Video Capture
If your hardware came with an installation CD or floppy disk, insert it now.
Install the software automatically (Recommended)
Install from a list or specific location (Advanced)
Click Next to continue.
< Back
Next >
Cancel

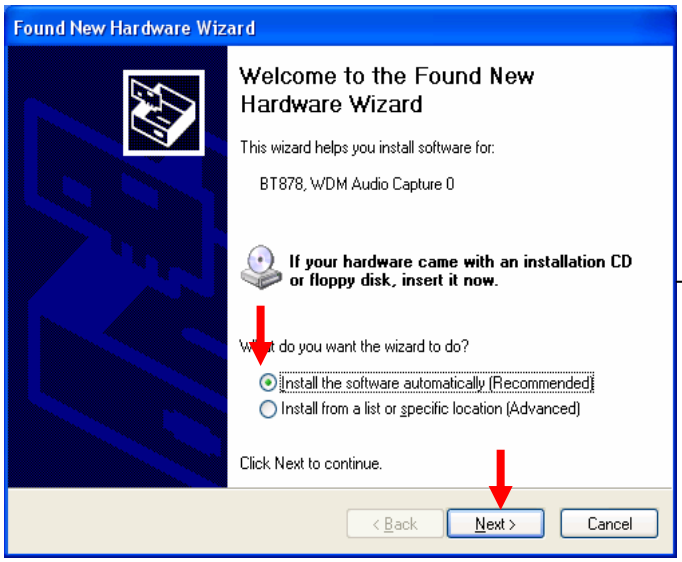
1-7 Please press “Continue Anyway” to continue the installation.

Hardware Installation
The software you are installing for this hardware:
BT878, WDM Video Capture
has not passed Windows Logo testing to verify its compatibility with Windows XP. (Tell me why this testing is important.)
Continuing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the hardware vendor for software that has passed Windows Logo testing.
Continue Anyway
STOP Installation

1-8 Please press “Finish”.


Found New Hardware Wizard
Completing the Found New Hardware Wizard
The wizard has finished installing the software for:
BT878, WDM Video Capture
Click Finish to close the wizard.
< Back
Finish
Cancel

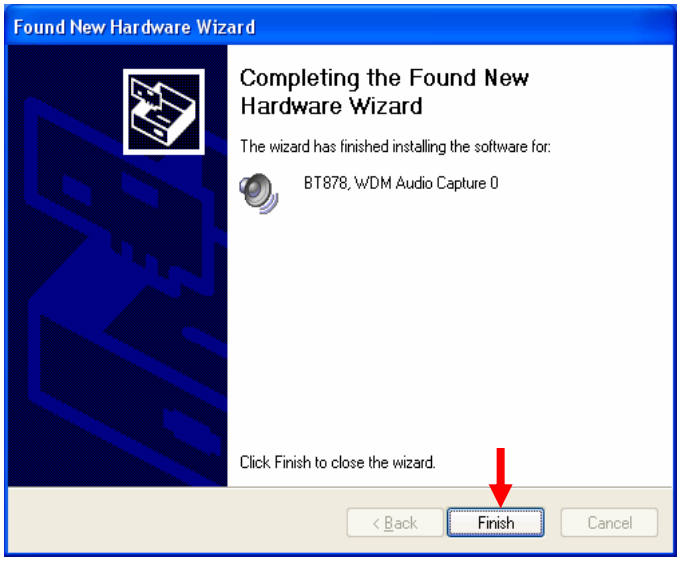
1-9 Please select “Install the software automatically” and then click “Next”.


Found New Hardware Wizard
Welcome to the Found New Hardware Wizard
This wizard helps you install software for:
BT878, WDM Audio Capture 0
If your hardware came with an installation CD or floppy disk, insert it now.
What do you want the wizard to do?
Install the software automatically (Recommended)
Install from a list or specific location (Advanced)
Click Next to continue.
< Back
Next >
Cancel

1-10 Please press “Continue Anyway” to continue the installation.

Hardware Installation
The software you are installing for this hardware:
BT878, WDM Audio Capture 0
has not passed Windows Logo testing to verify its compatibility with Windows XP. (Tell me why this testing is important.)
Continuing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the hardware vendor for software that has passed Windows Logo testing.
Continue Anyway
STOP Installation

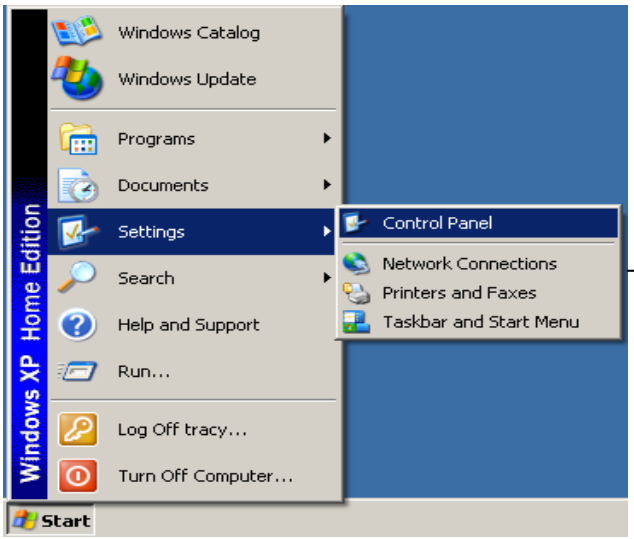
1-11 Please press “Finish” to finish the installation of the driver.

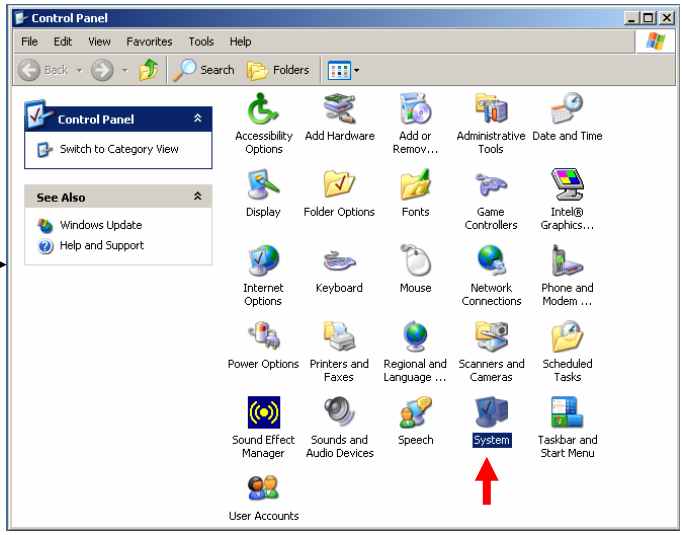

Found New Hardware Wizard
Completing the Found New Hardware Wizard
The wizard has finished installing the software for:
BT878, WDM Audio Capture 0
Click Finish to close the wizard.
< Back
Finish
Cancel

From 1-6 to 1-11 will be repeated until all of the drivers have been installed. Then

1-12 Please follow below steps to check if the drivers have been installed in system or not.

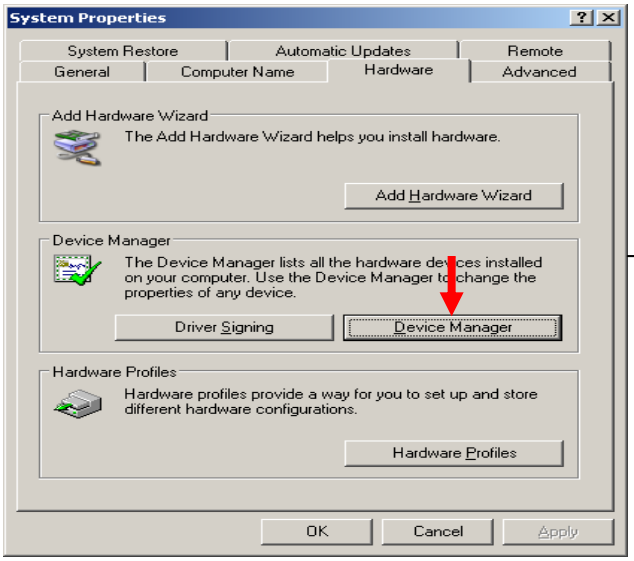
"Start" ➞ "Settings" ➞ "Control Panel". Then select "System" icon.

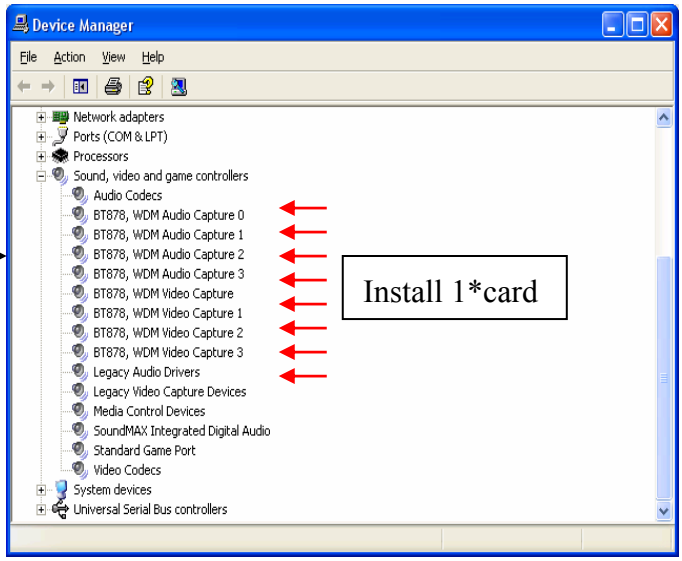




Click "Hardware" ➞ pick "Device Manager"

Click "Sound, video and game controllers" icon, then you will see following diagram which shows the installation is successful in device manager. Please confirm "BT878, WDM Video Capture" & "BT878, WDM Audio Capture" eight devices have been installed in driver list.





NOTE 1：if you purchase PV-140VPRO/143/180VPRO

Install 1*card→ 2 Device drivers
2*cards→ 4 Device drivers.
3*cards→ 6 Device drivers.
4*cards→ 8 Device drivers.

NOTE 2：if you purchase PV-149VPRO/153VPRO

1*card→ 8 Device drivers
2*cards→16 Device drivers.
3*cards→24 Device drivers.
4*cards→32 Device drivers.

NOTE 3：if you purchase PV-155/157/981VPRO

Install 1*card→ 8 Device drivers

NOTE 4：if you purchase PV-183VPRO

1*card→16 Device drivers

NOTE 5：if you purchase PV-980-4

Install 1*card → 2 Device drivers
2*cards→ 4 Device drivers
3*cards→ 6 Device drivers
4*cards→ 8 Device drivers

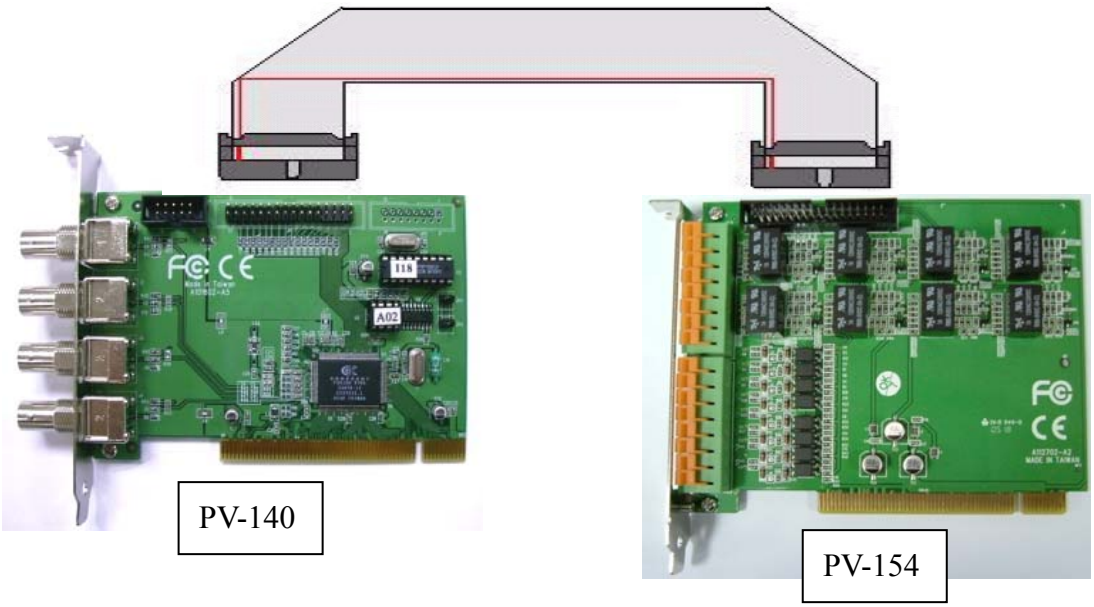
NOTE 6：if you purchase PV-980-8

1*card → 2 Device drivers
2*cards → 4 Device drivers

4. I/O Card (PV-154) Connection

PV-154 is an optional product which can be used on Security Eyes Surveillance System.
All of PV-1xx series VPRO can be used with PV-154 I/O relay card. In Security Eyes application software, it already builds in the I/O control program. About how to setup and use the program, please check the Software User Manual. Here we're describing Hardware Connection.

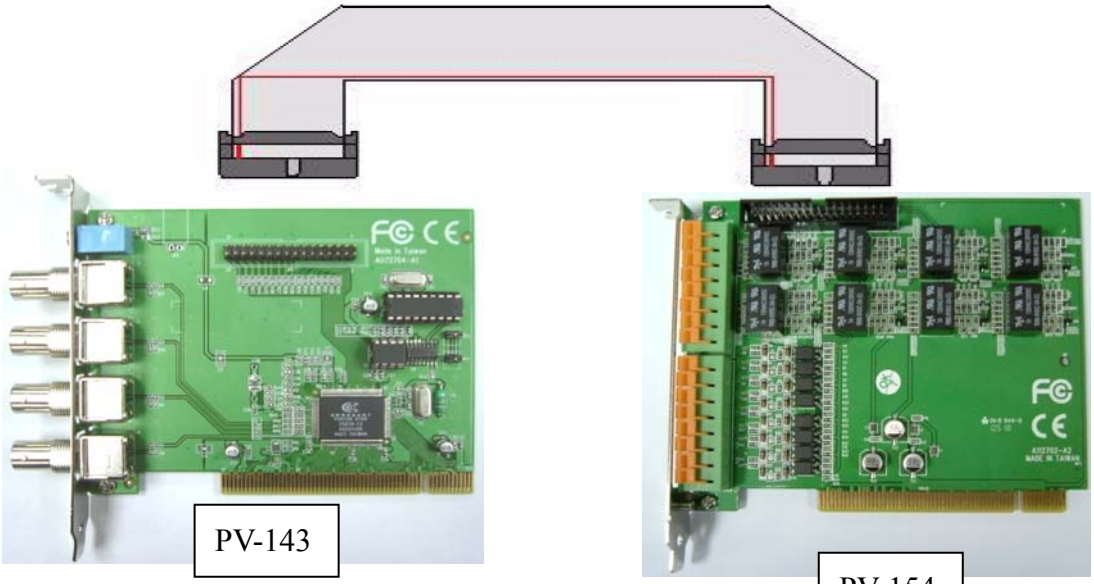
(A) PV-140 + PV-154



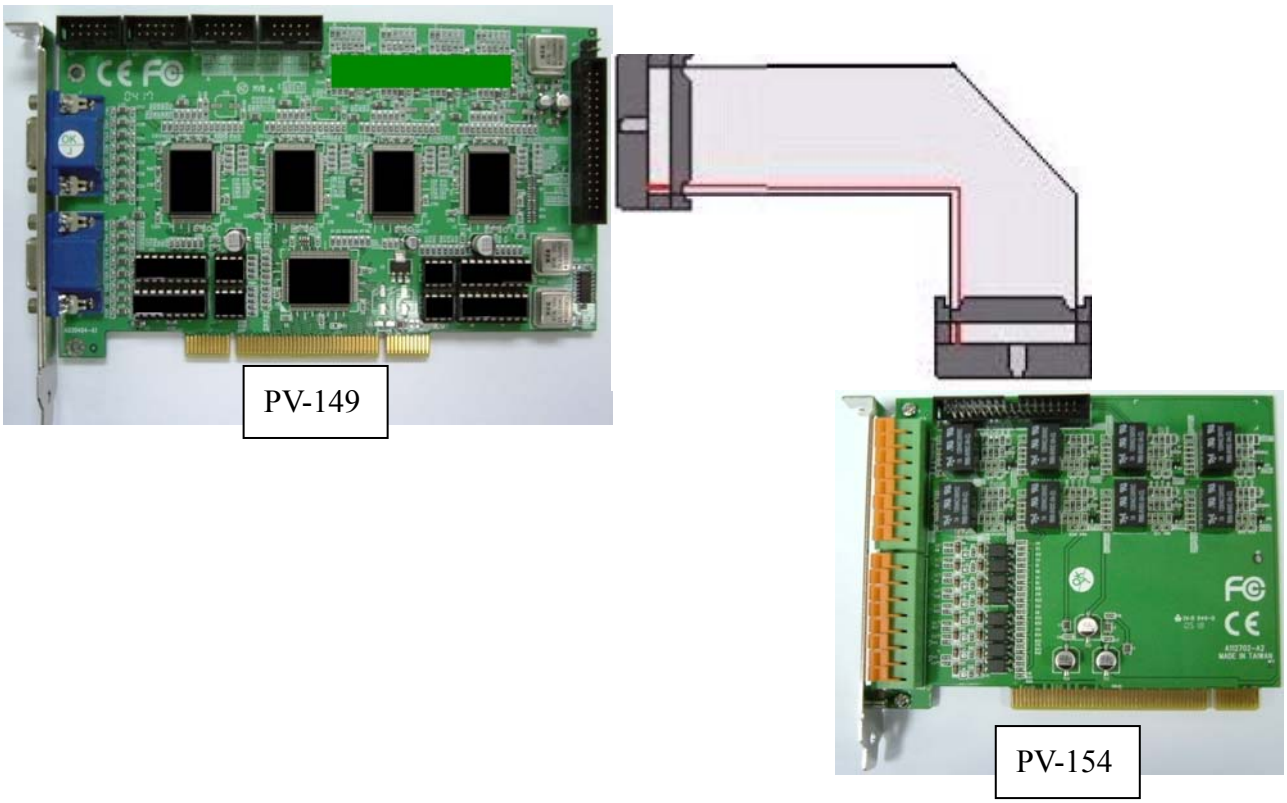
PV-140

PV-154

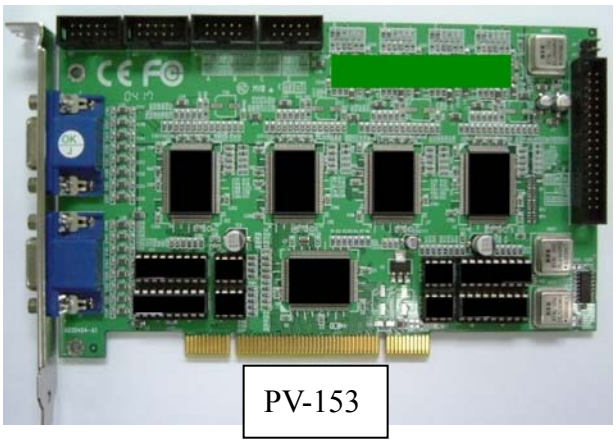
(B) PV-143 + PV-154



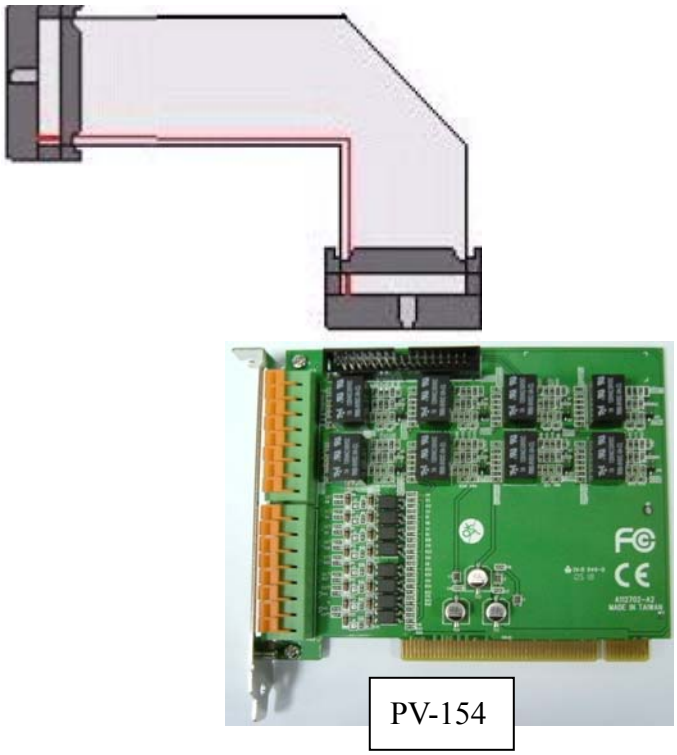
(C) PV-149 + PV-154



(D) PV-153 + PV-154

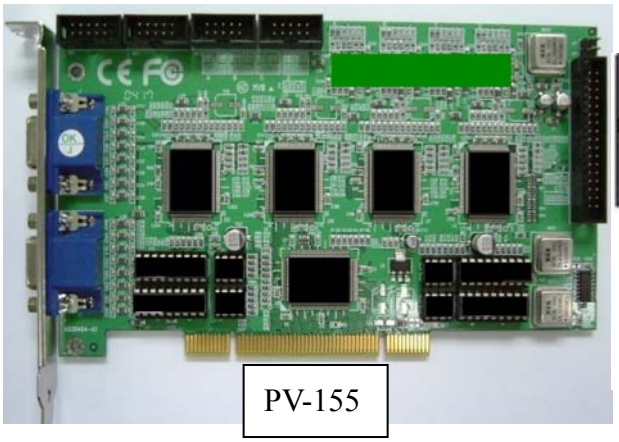


PV-153

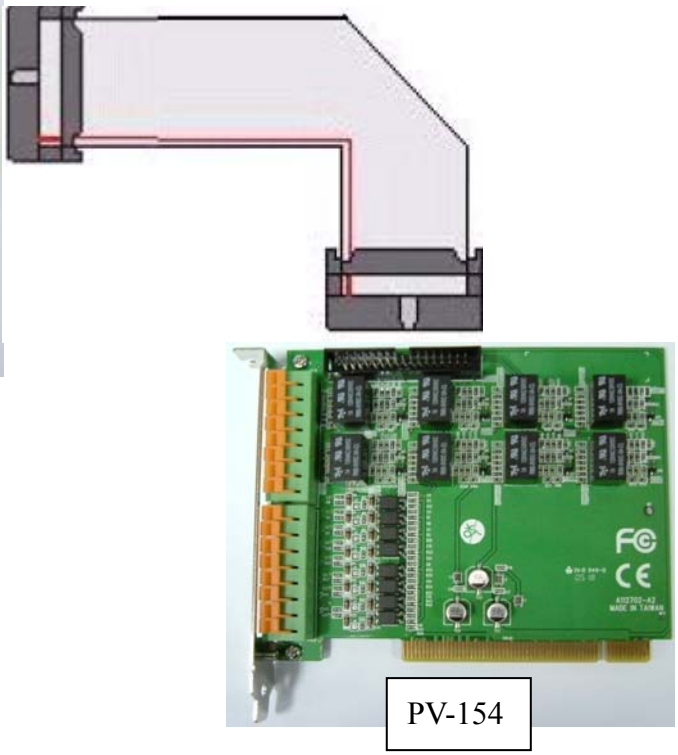


PV-154

(E) PV-155 +PV-154

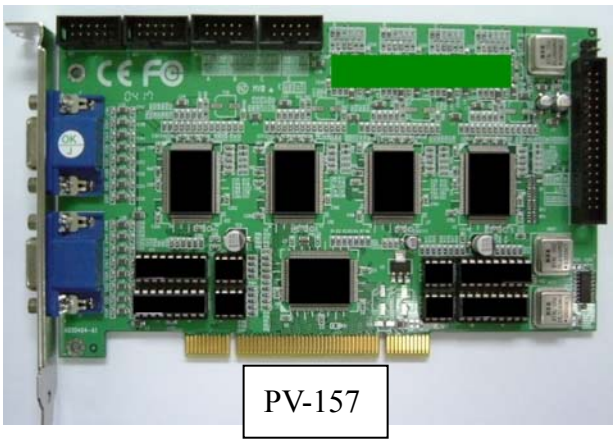


PV-155

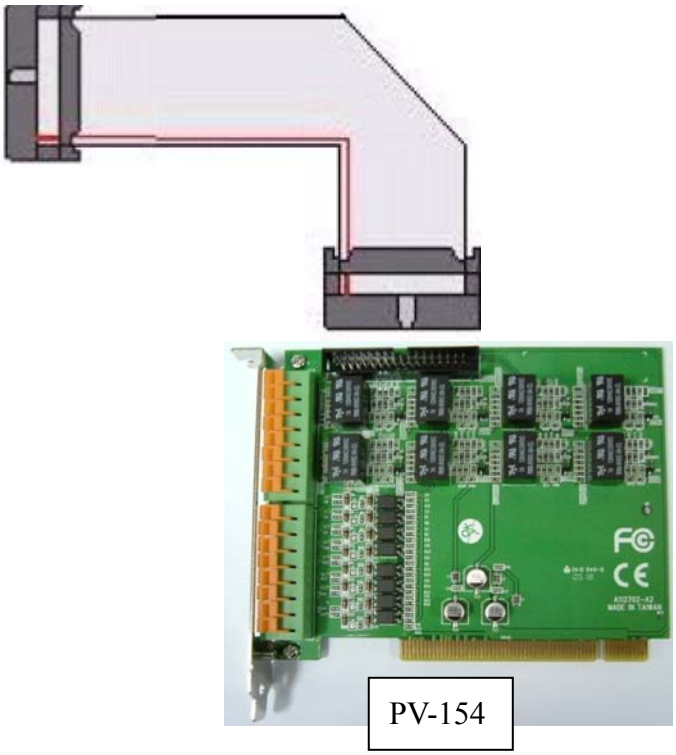


PV-154

(F)PV-157 + PV-154

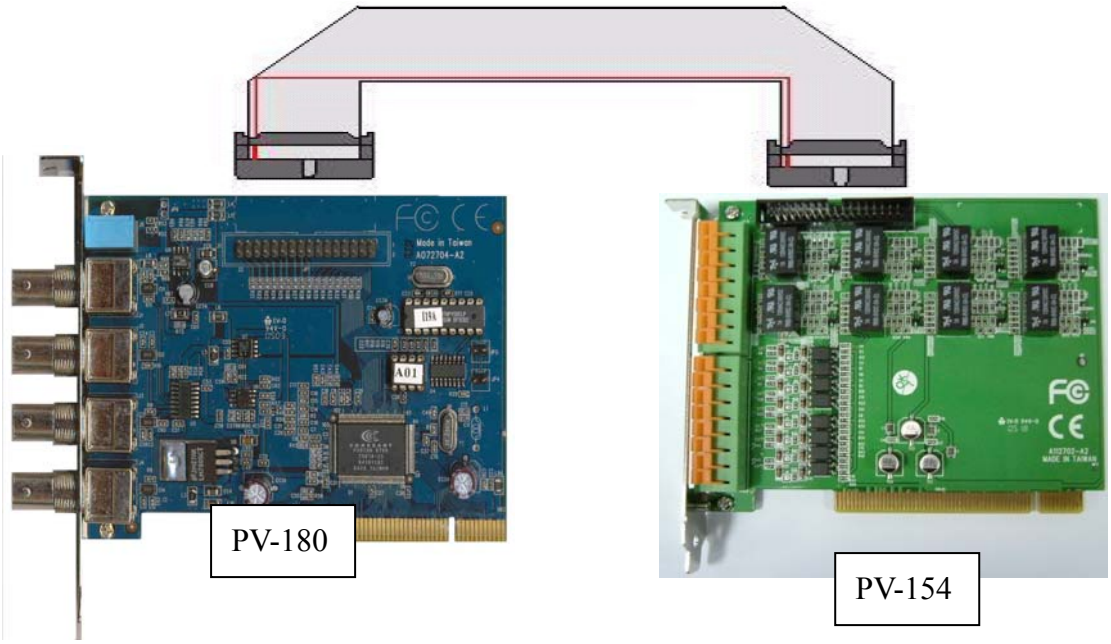


PV-157



PV-154

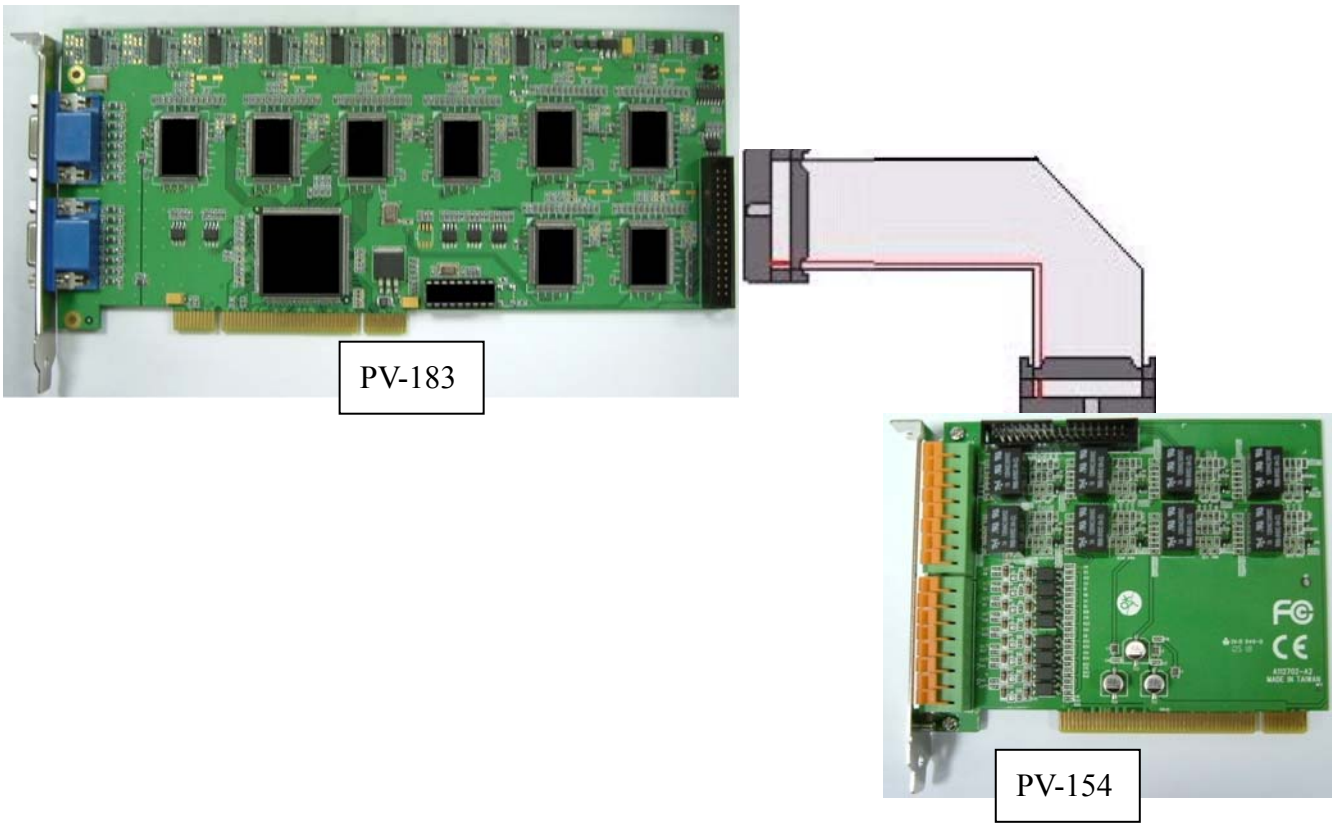
(G) PV-180 + PV-154



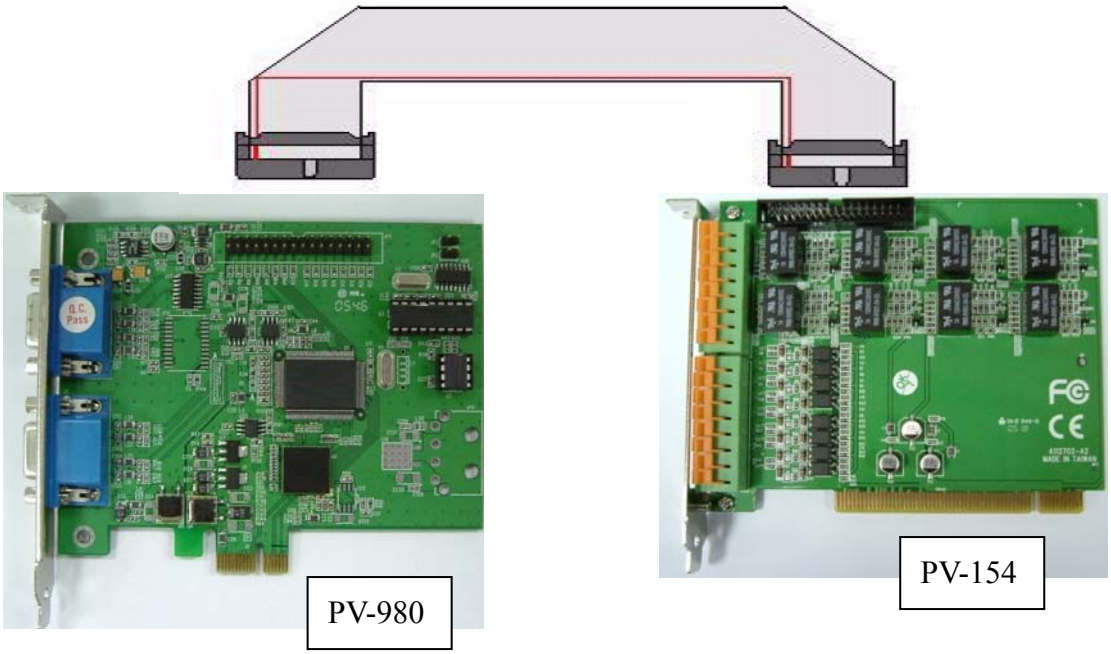
PV-180

PV-154

(H) PV-183 + PV-154



(I) PV-980 + PV-154



(J) PV-981 + PV-154